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Field Crop Abstracts

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Produced by the DIVISION OF CROP PRODUCTION

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The staff of the Division of Crop Production prepare abstracts for the CAB ABSTRACTS database which are published in the three main monthly journals, Field Crop Abstracts, Horticultural Abstracts and Grasslands and Forage Abstracts. These three journals together cover world scientific literature on cultivated crops as well as on wild plants of known economic importance. Scope of Field Crop Abstracts: the subjects covered include the agronomy and biology of all annual field crops grown for food, fodder, oil and fibre

Field Crop Abstracts

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Jute	–	133	239	340	–	–	670	–	856	–	1038	–
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READERS' GUIDE TO ABSTRACTS

An abstract consists of the following:

Abstract number
Author(s)
Title in English
Original title if in a Roman script language
Name of journal or other document
Year of publication, volume, part number and pagination
Language of text, and, in lower case, language(s) of summaries, followed by other bibliographic details
Organization where work was carried out
Abstract

936 MOLL, A. **[The effects of physiological aging of seed tubers on growth characteristics of eight potato cultivars tested under controlled conditions.]** Einfluss der physiologischen Alterung bei Pflanzknollen verschiedener Sorten auf Wachstumcharakteristika im Laborversuch. *Potato Research* (1994) **37** (1) 11-20 [De, en, 10 ref.] Vormals Institut für Kartoffelforschung Gross Lüsewitz, 2551 Gross Lüsewitz, Germany.

In 2-year trials, during physiological aging, samples of 15 tubers of each of 8 cultivars were desprouted, planted into a mixture of compost and peat, and placed in darkness at 22ºC. Averaged over cultivars, the number and length of sprouts increased with increasing physiological age of the seed tubers until a maximum was reached. Beyond this, a slight decline in the number of sprouts was observed. With advanced physiological age, the diameter and DM content of the sprouts decreased. However, these characteristics could not be used to monitor differences in the rate of physiological aging between the potato cultivars. The growth capacity (GC = sprout and root mass (g) per tuber after 20 d at 22º) showed an optimum in the course of physiological aging. Root mass reached optimum levels earlier than sprout mass and in most cases also earlier than the total mass. Despite year-to-year variation, cultivar differences in the rate of aging could be noted from the timing of the GC optima (based on temperature sum), from the maximum values of GC and from the GC values immediately after the end of dormancy. For 3 pairs of cultivars the differences in rate of physiological aging, as observed in field trials, were confirmed by differences in growth capacity in the laboratory tests. For one pair of cultivars the laboratory test did not predict the different behaviour in the field.

For non-serial publications such as books, transliterated titles are given for languages in Cyrillic or Greek scripts.

Editorial additions within abstracts appear in square brackets e.g. for preferred Latin names of organisms.

Where an item is not abstracted from the original document but from a secondary source, this is indicated after the author's affiliation.

The author and subject indexes for the twelve monthly parts are cumulated to provide annual indexes. Terms used in the indexes are taken from the CAB Thesaurus, 1990 edition.

LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, an initial small letter the language of the summary.

Af	Afrikaans	Eo	Esperanto	Ja	Japanese	Pt	Portuguese
Al	Albanian	Es	Spanish	Ko	Korean	Ro	Romanian
Ar	Arabic	Fi	Finnish	La	Latin	Ru	Russian
Az	Azerbaijani	Fr	French	Li	Lithuanian	Sh	Serbo Croat
Be	Belarussian	Gr	Greek	Lv	Latvian	Sk	Slovak
Bg	Bulgarian	He	Hebrew	Ma	Macedonian	Sn	Slovenian
Ch	Chinese	Hi	Hindi	My	Bahasa Malaysia/ Malay	Sv	Swedish
Cs	Czech	Hu	Hungarian	Nl	Dutch, Flemish	Ta	Tajik
Da	Danish	Ia	Interlingua	No	Norwegian	Th	Thai
De	German	In	Indonesian	Pe	Persian	Tr	Turkish
Ee	Estonian	Is	Icelandic	Pl	Polish	Uk	Ukrainian
En	English	It	Italian				

ABBREVIATIONS

ADP	adenosine diphosphate
a.i.	active ingredient
alt.	altitude
AMP	adenosine monophosphate
Apr.	April
ATP	adenosine triphosphate
Aug.	August
cAMP	cyclic adenosine monophosphate
CEC	cation exchange capacity
CGR	crop growth rate
CP	crude protein
cv.	cultivar
Dec.	December
DM	dry matter
DNA	deoxyribonucleic acid
DW	dry weight
E.	East
e.g.	for example
ELISA	enzyme-linked immunosorbent assay
EM	electron microscope
ESP	exchangeable sodium percentage
Feb.	February
f.sp.	*forma specialis* (special form)
FW	fresh weight
FYM	farmyard manure
GC	gas chromatography
GLC	gas-liquid chromatography
HPLC	high performance liquid chromatography
i.e.	that is
Ig	immunoglobulin
IR	infrared
Jan.	January
LAI	leaf area index
M	molar
Mar.	March
MIM	multiple ion monitoring
mol.	molecular
MS	mass spectrometry
MW	molecular weight
N.	north
N	normal (concentration)
n	haploid chromosome number
NAD	nicotinamide adenine dinucleotide
NADH	nicotinamide adenine dinucleotide (reduced form)
NADP	nicotinamide adenine dinucleotide phosphate
NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)
NAR	net assimilation rate
NE	north-east
NMR	nuclear magnetic resonance
Nov.	November
NW	north-west
Oct.	October
OM	organic matter
P	probability
PAGE	polyacrylamide gel electrophoresis
PAL	phenylalanine ammonia-lyase
PAR	photosynthetically active radiation
PEP	phosphoenolpyruvate
Pfr	phytochrome, far-red form
Pr	phytochrome, red form
pH	hydrogen ion concentration
post-em.	pre-emergence
p.p.m.	parts per million
pre-em.	pre-emergence
PSI, PSII	photosystem I, photosystem II
r	correlation coefficient
RC	radioconductivity
RGR	relative growth rate
RH	relative humidity
RNA	ribonucleic acid
r.p.m.	revolutions per minute
S.	south
SDS	sodium dodecyl sulphate
SE	south-east
SEM	scanning electron microscope
Sep.	September
SIM	selective ion monitoring
sp., spp.	species (s. and pl.)
subsp., subspp.	subspecies (s. and pl.)
SW	south-west
TLC	thin-layer chromatography
UV	ultraviolet
vs.	versus
v/v	volume/volume
v/w	volume/weight
W.	west
w.p.	wettable powder
w/v	weight/volume
w/w	weight/weight

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Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura
Acta Academiae Agriculturae ac Technicae Olstenensis, Oeconomica
Acta Agriculturæ Scandinavica. Section B, Soil and Plant Science
Acta Agriculturae Boreali-Sinica
Acta Agriculturae Nucleatae Sinica
Acta Agriculturae Shanghai
Acta Agriculturae Sinica, Supplement
Acta Agriculturae Universitatis Henanensis
Acta Agriculturae Universitatis Jiangxiensis
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Acta Biologica Hungarica
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Acta Botanica Gallica
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Acta Ecologica Sinica
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Acta Horticulturae
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Acta Oecologica
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Acta Physiologiae Plantarum
Acta Phytophysiologica Sinica
Acta Prataculturae Sinica
Acta Scientiarum Naturalium Universitatis Normalis Hunanensis
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Acta Societatis Botanicorum Poloniae
Actualidades - Instituto Colombiano Agropecuario
Actualidades Corpoica
Advances in Agronomy
Advances in Plant Sciences
African Crop Science Journal
African Journal of Agricultural Sciences
Agrarforschung
Agribiological Research
Agricoltura Mediterranea
Agricoltura Ricerca
Agricontact
Agricultura Técnica (Santiago)
Agricultura Técnica en México
Agricultura Tropica et Subtropica
Agricultura, Revista Agropecuaria
Agricultural and Forest Meteorology
Agricultural Reviews (Karnal)
Agricultural Science Digest (Karnal)
Agricultural Science in Finland
Agricultural Systems
Agricultural Water Management
Agriculture & Equipment International
Agriculture et Développement
Agriculture, Ecosystems & Environment
AgriScientia
Agro Sur
Agro-Ciencia
Agrochémia (Bratislava)
Agrochimica
Agroforestry Systems
Agrokhimiya
Agronomía Tropical (Maracay)
Agronomie
Agronomski Glasnik
Agronomy Journal
Agropedology
Al Awamia
Alexandria Journal of Agricultural Research
Allelopathy Journal
AMA, Agricultural Mechanization in Asia, Africa and Latin America
American Journal of Alternative Agriculture
American Journal of Botany
American Journal of Chinese Medicine
American Potato Journal
Anadolu
Anales de la Academia Nacional de Ciencias Exactas, Físicas y Naturales de Buenos Aires
Analytical Biochemistry
Angewandte Botanik
Annali dell'Istituto Sperimentale Agronomico
Annali della Facoltà di Agraria, Università Cattolica del Sacro Cuore Milano
Annali della Facoltà di Agraria, Università di Bari
Annals of Agricultural Research
Annals of Agricultural Science (Cairo)
Annals of Agricultural Science, Moshtohor
Annals of Applied Biology
Annals of Arid Zone
Annals of Bangladesh Agriculture
Annals of Biology (Ludhiana)
Annals of Botany
Annals of Plant Physiology
Annals of the Phytopathological Society of Japan
Année Biologique
Annual Report - College of Agriculture and Life Sciences, North Carolina State University
Annual Report of the Director-General: Agriculture, South Africa
Annual Review of Plant Physiology and Plant Molecular Biology
Aomori-ken Nogyo Shikenjo Kenkyu Hokoku = Bulletin of the Aomori Agricultural Experiment Station
Applied Biochemistry and Biotechnology. Part A, Enzyme Engineering and Biotechnology
Applied Engineering in Agriculture
Applied Geography (Sevenoaks)
Applied Microbiology and Biotechnology
Applied Plant Science
Applied Radiation and Isotopes
Arab Gulf Journal of Scientific Research
Archives des Sciences (Geneva)
Archives of Biochemistry and Biophysics
Archivos Latinoamericanos de Nutrición
Arid Soil Research and Rehabilitation
Arkansas Farm Research
Arroz
Aspects of Applied Biology
Assiut Journal of Agricultural Sciences
Atmospheric Environment
Australian Journal of Agricultural Research
Australian Journal of Experimental Agriculture
Australian Journal of Plant Physiology
Australian Journal of Soil and Water Conservation
Australian Journal of Soil Research
Avance Agroindustrial
Avances de Investigación - Centro de Investigación Agrícola Tropical
Avances en Investigación - INTA Estación Experimental Agropecuaria Manfredi
Bangladesh Journal of Scientific and Industrial Research
Bangladesh Journal of Scientific Research
Beijing Agricultural Sciences
Beiträge zur Biologie der Pflanzen
Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
Bhartiya Krishi Anusandhan Patrika
Biblioteczka Wiadomości IMUZ
Biochemical and Biophysical Research Communications
Biochemical Journal (London)
Biochemical Society Transactions
Biochemistry and Molecular Biology International
Biochimica et Biophysica Acta, Bioenergetics
Biochimica et Biophysica Acta, Gene Structure and Expression
Biochimica et Biophysica Acta, General Subjects

Biochimica et Biophysica Acta, Lipids and Lipid Metabolism
Biochimica et Biophysica Acta, Molecular Cell Research
Biochimica et Biophysica Acta, Protein Structure and Molecular Enzymology
BioEssays
Biológia (Bratislava)
Biologia Plantarum
Biological Agriculture & Horticulture
Biological Chemistry Hoppe-Seyler
Biological Control
Biological Mass Spectrometry
Biological Reviews of the Cambridge Philosophical Society
Biological Trace Element Research
Biologija
Biologisches Zentralblatt
Biology and Fertility of Soils
Biology Bulletin of the Russian Academy of Sciences
Biomass and Bioenergy
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Biotechnic & Histochemistry
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Bodenkultur
Boletim de Indústria Animal
Boletim de Pesquisa - Unidade de Execução de Pesquisa de Âmbito Estadual de Dourados
Boletim Tecnico - Empresa Pesquisa Agropecuaria e Difusao de Tecnologia de Santa Catarina S.A.
Boletín Técnico - Estación Experimental Agropecuaria, Balcarce
Botanica Acta
Botanical Bulletin of Academia Sinica
Botanical Journal of Scotland
Botanical Journal of South China
Botanicheskiĭ Zhurnal
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Buletinul Universităţii de Ştiinţe Cluj-Napoca. Seria Agricultura şi Horticultură
Bulletin - Agricultural Experiment Station, University of Tennessee
Bulletin - Alabama Agricultural Experiment Station
Bulletin - Arkansas Agricultural Experiment Station
Bulletin - Louisiana Agricultural Experiment Station
Bulletin - Mississippi Agricultural and Forestry Experiment Station
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Bulletin of Environmental Contamination and Toxicology
Bulletin of Faculty of Agriculture, University of Cairo
Bulletin of Taichung District Agricultural Improvement Station
Bulletin of Taiwan Tobacco Research Institute, Taiwan Tobacco & Wine Monopoly Bureau
Bulletin of the Agricultural Research Institute of Kanagawa Prefecture
Bulletin of the Chugoku National Agricultural Experiment Station
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Canadian Journal of Plant Science
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Carbohydrate Polymers
Carbohydrate Research
Carta Trimestral - CENICANA, Centro de Investigación de la Caña de Azúcar de Colombia
Catena
Cell Biology International
Centro Agrícola
Centro Azúcar
Cercetări Agronomice în Moldova
Cereal Chemistry
Cereal Research Communications
Chemical Regulation of Plants
Chemistry of Natural Compounds
Chemosphere
China Cottons
China Sugarbeet
China's Fibre Crops
Chinese Journal of Applied Ecology
Chinese Journal of Arid Land Research
Chinese Journal of Chromatography
Chinese Journal of Rice Science
Chinese Vegetables
Chromatographia
Ciencia del Suelo
Ciencia e Investigación Agraria
Ciência Rural
Científica (Jaboticabal)
CIP Circular
Circular - Instituto Agronômico do Paraná
Circular Técnica - Centro Nacional de Pesquisa de Milho e Sorgo
Climatic Change
Clinical and Experimental Allergy
Communications in Soil Science and Plant Analysis
Compost Science & Utilization
Comptes Rendus de l'Académie d'Agriculture de France
Comptes Rendus de l'Académie des Sciences. Série III, Sciences de la Vie
Computers and Electronics in Agriculture
Comunicado Técnico - EMCAPA
Comunicado Tecnico - Unidade de Execucao de Pesquisa de Ambito Estadual de Dourados
Cooperative Sugar
Coton et Fibres Tropicales
Critical Reviews in Plant Sciences
Crop Improvement
Crop Production Science
Crop Protection
Crop Research (Hisar)
Crop Science
CRRN, Chinese Rice Research Newsletter
Cryo-letters
CSM Informatie
Cuba Azúcar
Cuban Journal of Agricultural Science
Cukoripar
Cultivar (Paris)
Cultivos Tropicales
Cultura Agronômica
Current Agriculture
Current Opinion in Cell Biology
Current Research - University of Agricultural Sciences (Bangalore)
Current Science
Cytobios
Cytologia
Deutsche Lebensmittel-Rundschau
Developmental Biology
Dirasat. Series B, Pure and Applied Sciences
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DLG-Mitteilungen Agrar-Inform
Documento de Trabajo - Departamento de Ciencias Sociales, Centro Internacional de la Papa
Documentos - Centro de Pesquisa Agropecuária do Trópico Úmido
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Doklady Rossiĭskoĭ Sel'skokhozyaĭstvennykh Nauk
Doklady, Biological Sciences
Duta Rimba
East African Agricultural and Forestry Journal
Ecological Applications
Ecological Modelling
Ecological Research
Ecology
Ecology of Food and Nutrition
Ecotoxicology and Environmental Safety
Ege Üniversitesi Ziraat Fakültesi Dergisi
Egyptian Journal of Horticulture
Egyptian Journal of Physiological Sciences
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Élelmezési Ipar
Energy Conversion and Management
Environment and Ecology
Environment International
Environmental and Experimental Botany
Environmental Management
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Estudio de Campo - Centro de Investigación Agrícola Tropical
Euphytica
Eurasian Soil Science
European Journal of Agronomy
European Journal of Biochemistry
Eurosoya

Experientia
Experimental Agriculture
FABIS Newsletter
FAGINFO
Fagopyrum
Farmers' Newsletter
Farming Systems
FEBS Letters
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Fertiliser News
Fertilizer Research
Fett Wissenschaft Technologie
Field Crops Research
Flora (Jena)
Florida Entomologist
Folia Horticulturae
Food and Chemical Toxicology
Food Chemistry
Food Structure
Förderungsdienst
Forest Ecology and Management
Forest Research Newsletter (Bai Bang)
Forschungs-Report, Ernährung Landwirtschaft Forsten
Forstwissenschaftliche Beitrage - ETH Zurich
Fourrages
Fresenius Environmental Bulletin
Fresenius' Journal of Analytical Chemistry
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Functional Ecology
Gansu Nongye Daxue Xuebao
Gartenbauwissenschaft
Geomicrobiology Journal
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Glycoconjugate Journal
Grøn Viden, Landbrug
Grana
Grassland of China
Groenten + Fruit, Vollegrondsgroenten
Groundnut News
Guangdong Agricultural Sciences
Gujarat Agricultural University Research Journal
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Harvest (Port Moresby)
Haryana Agricultural University Journal of Research
Haryana Journal of Agronomy
Haryana Journal of Horticultural Sciences
Hassadeh
Hereditas (Landskrona)
Heredity
HGCA Oilseeds Project Report
HGCA Project Report
HGCA Research Review
Himachal Journal of Agricultural Research
Holzforschung
Horticultura Brasileira
Horticultural Journal
Horticultural Reviews
HortScience
HortTechnology
HRC, Journal of High Resolution Chromatography
Hydrological Processes
IAR Newsletter of Agricultural Research
IEEE Transactions on Geoscience and Remote Sensing
Indian Agriculturist
Indian Botanical Reporter
Indian Farming
Indian Horticulture
Indian Journal of Agricultural Engineering
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Indian Journal of Dryland Agricultural Research and Development
Indian Journal of Ecology
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Indian Journal of Plant Physiology
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Indian Journal of Virology
Indian Review of Life Sciences
Indian Sugar
Industrial Crops and Products
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Informativo ABRATES
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Informe da Pesquisa - Instituto Agronómico do Paraná
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Institute of Botany, Academia Sinica Monograph Series
International Agrophysics
International Arachis Newsletter
International Chickpea Newsletter
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Irish Journal of Agricultural and Food Research
Irrigation and Drainage Systems
Irrigation Science
Irrigazione e Drenaggio
Isotope and Radiation Research
Israel Journal of Botany
Israel Journal of Plant Sciences
ITC Journal
ITEA Producción Vegetal
Izvestiya Akademii Nauk. Seriya Biologicheskaya
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Japanese Journal of Genetics
Japanese Journal of Soil Science and Plant Nutrition
Japanese Journal of Tropical Agriculture
JARQ, Japan Agricultural Research Quarterly
Jiangsu Journal of Agricultural Sciences
JIAS, Journal of the Iowa Academy of Science
JNKVV Research Journal
Journal - American Society of Sugar Cane Technologists
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RDA Journal of Agricultural Science, Horticulture
RDA Journal of Agricultural Science, Livestock
RDA Journal of Agricultural Science, Rice
RDA Journal of Agricultural Science, Soil & Fertilizer
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CAB INTERNATIONAL (CABI) is an international, inter-governmental organization established in 1928. It is owned by its member governments, which currently number 36. The organization is largely self-supporting financially, through the sale of its products and services, and other sources of income.

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International Mycological Institute
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International Institute of Biological Control
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- survey and diagnosis of plant health problems
- support for integrated pest management and biological control
- biosystematic research on arthropods, micro-organisms, nematodes and helminths
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- research on human mycoses and tropical parasitic diseases
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